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TAILS OF				
		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/768,494	61/24/2001	Peter C. Van Buskirk	2771-272	2111
Oliver A. Zitz ATMI, Inc.	mann		OLSEN, ALLAN W	
7 Commerce Drive Danbury, CT 06810			ART UNIT	PAPER NUMBER
			1763	
			DATE MAILED: 01/15/200	3 / 0

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/768,494	BUSKIRK ET AL.
Office Action Summary	Examiner	Art Unit
		1763
The MAILING DATE of this communication app	pears on the cover sh	neet with the correspondence address
The MAILING DATE of this communication appeared for Reply		F 2 MONTH(S) EDOM
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, by within the statutory minimus will apply and will expire SIX	r, may a reply be unlest lifed um of thirty (30) days will be considered timely. (6) MONTHS from the mailing date of this communication.
Status	August 2002	
2h)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	This action is non-tine	al.
2a) [] This action is the 12.	for form	mal matters, prosecution as to the ments is
closed in accordance with the practice undo	5, 2 , 7	
Oleim(s) 2.4.12-14.24-27.53 and 57 <u>-61</u> is/ar	re pending in the apr	Sien
4a) Of the above claim(s) is/are withdr	rawn from considera	mon.
5) Claim(s) is/are allowed.		
6) Claim(s) 2-4,12-14,24-27,53 and 57-61 is/ard	e rejected.	
is/are objected to.		
8) Claim(s) are subject to restriction and	d/or election requiren	ment.
Application Papers		
— us displayed to by the Exami	iner.	u. b. the Everniner
	ccented or b) objects	red to by the Examiner.
Applicant may not request that any objection to		
The proposed drawing correction filed on	is: a)[_] approve	ed p)[] disabb
If approved, corrected drawings are required in	n reply to this Office ac	діоп.
12) The oath or declaration is objected to by the	Examiner.	
a a sc 440 and 120		THOO C 440/51/41 55/51
13) Acknowledgment is made of a claim for for	reign priority under 3.	15 U.S.C. § 119(a)-(a) or (i).
None of:		
- of the priority docum	nents have been rec	eived.
su minitu docum	nents have been rect	ceived in Application 140:
3. Copies of the certified copies of the	priority documents h	a 17 2(a)).
application from the international	wat of the cortified o	copies not received.
- Is demont is made of a claim for don	mestic priority under	35 0.5.6. 3 1 10(0) (1
a) The translation of the foreign language	e provisional applica	ation has been received.
a) ☐ The translation of the foreign language 15) ☐ Acknowledgment is made of a claim for dor	mestic priority under	r 35 U.S.C. 99 TZU and/OF 12 1.
Attachment(s)	_	Integriew Summary (PTO-413) Paper No(s)
1) Notice of References Cited (PTO-892)	4) L 48) 5) [No(s) 6) [Notice of Informal Patent Application (PTO-152) Other:
Notice of Draitsperson's Fatement(s) (PTO-1449) Paper N Information Disclosure Statement(s) (PTO-1449) Paper N		Part of Paper No. 10

Application/Control Number: 09/768,494

Art Unit: 1763

DETAILED ACTION

Terminal Disclaimer

The terminal disclaimer filed on August 22, 2002 disclaiming the terminal portion of any patent granted on this application extending beyond the expiration date of U.S. Patent 6,254,792 and U.S. Patent 6,143,191 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 57 and those claims dependent therefrom, specifically, claims 2-4, 12-14, 24-27, 59 and 60, are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The original disclosure does not provide a basis for the proviso limitation that has been added by amendment to claim 57.

Art Unit: 1763

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Recent Statutory Changes to 35 U.S.C. § 102(e)

On November 2, 2002, President Bush signed the 21st Century Department of Justice Appropriations Authorization Act (H.R. 2215) (Pub. L. 107-273, 116 Stat. 1758 (2002)), which further amended 35 U.S.C. § 102(e), as revised by the American Inventors Protection Act of 1999 (AIPA) (Pub. L. 106-113, 113 Stat. 1501 (1999)). The revised provisions in 35 U.S.C. § 102(e) are completely retroactive and effective immediately for all applications being examined or patents being reexamined. Until all of the Office's automated systems are updated to reflect the revised statute, citation to the revised statute in Office actions is provided by this attachment. This attachment also substitutes for any citation of the text of 35 U.S.C. § 102(e), if made, in the attached Office action.

The following is a quotation of the appropriate paragraph of 35 U.S.C. § 102 in view of the AIPA and H.R. 2215 that forms the basis for the rejections under this section made in the attached Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

35 U.S.C. § 102(e), as revised by the AIPA and H.R. 2215, applies to all qualifying references, except when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. For such patents, the prior art date is determined under 35 U.S.C. § 102(e) as it existed prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. § 102(e)).

Application/Control Number: 09/768,494

Art Unit: 1763

The following is a quotation of the appropriate paragraph of 35 U.S.C. § 102 prior to the amendment by the AIPA that forms the basis for the rejections under this section made in the attached Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

For more information on revised 35 U.S.C. § 102(e) visit the USPTO website at www.uspto.gov or call the Office of Patent Legal Administration at (703) 305-1622.

Claims 3, 4, 13, 14, 57, 59 and 60 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5,814,238 (Ashby et al., hereafter, Ashby).

Ashby teaches a method for removing contaminants of Pt, Pd, Ir and Rh from the surface of a wafer that uses a gas phase reactive halide composition. Ashby teaches the use of SF_6 as a component of the reactive halide composition. See: col. 1, lines 10-16 and col. 4, lines 4, 5 and 62. Ashby teaches the removal of metal/metal silicides in a fluorine plasma environment. In this environment the claimed metal fluorides and the SiF_x species, including radicals, would inherently be present (col. 7, line 45-67). Ashby teaches the use of a cleaning enhancement agent/Lewis base (e.g. PF_3 , CO, PR_3) (abstract; col. 3, line 26 - col. 5, line 8).

Claim 61 is rejected under 35 U.S.C. 102(e) as being anticipated by Tea et al. in Journal of Microelectromechanical Systems, vol. 6, no.4, pages 363-372.

Tea et al. disclose the etching of Iridium with XeF2. See the last half of the second full paragraph on page 364.

Page 5

Application/Control Number: 09/768,494

Art Unit: 1763

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 2-4, 12-14, 24-27, 53, 57-61 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-6, 8-10, 12-17, 21-23, 25,26, 28, 29, 31-33 and 35-51 of copending Application No. 09/874102.

Although the conflicting claims are not identical, they are not patentably distinct from each other because each limitation of the instant claims are claimed in the copending Application No. 09/874102, the only difference being that Application No. 09/874102 recites additional limitations such as the inclusion of oxygen or ozone in the reactive gas.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Application/Control Number: 09/768,494

Art Unit: 1763

Allowable Subject Matter

Claims 24-27, 53 and 58 are allowable over the prior art but they stand rejected under the judicially created doctrine of obviousness-type double patenting. The obvious type double patenting rejections may be overcome by filing the necessary terminal disclaimer.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allan Olsen whose telephone number is 703-306-9075. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Mills, can be reached on 703-308-1633.

The general fax numbers for TC1700 are 703-872-9310 (non-after finals) and 703-872-9311 (after-final).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

Allan Olsen, Ph.D. January 8, 2003

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